

Page 19, line 4:

After "Patent" please insert --5,443,673, issued August 22, 1995--.

IN THE CLAIMS:

Please cancel claims 1-130, as originally filed, without prejudice.

Please add the following new claims 131-181 as follows:

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131. A vehicular window assembly suitable for use in a vehicle, said window assembly comprising:
- a glass panel having a first surface and an opposing second surface;
 - an attachment member,
 - said glass panel and said attachment member joined by an adhesive layer;
 - said adhesive comprising a mixture of an isocyanate component and a polyol component, said adhesive disposed between said first surface of said glass panel and said attachment member, said layer of adhesive cured to form a joint suitable for use on the vehicle;
 - said layer of cured adhesive bonding said attachment member to said first surface of said glass panel prior to installation of said assembly in the vehicle and without exposure of said bonded attachment member on said second surface of said panel; and
 - wherein said polyol component includes at least one plural amine compound.
132. The vehicular window assembly of claim 131 wherein said at least one plural amine compound comprises one of an aromatic plural amine compound and a nonaromatic plural amine compound.
133. The vehicular window assembly of claim 132 wherein said aromatic plural amine compound includes at least two amine groups.
134. The vehicular window assembly of claim 132 wherein said nonaromatic plural amine compound includes at least three amine groups.
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135. The vehicular window assembly of claim 131 wherein said plural amine compound contains from 2 to 24 carbon atoms.

136. The vehicular window assembly of claim 131 further comprising a layer of at least one of an adhesive promoter and a primer disposed between said glass panel and said layer of adhesive.

137. The vehicular window assembly of claim 136 wherein said at least one of said adhesion promoter and said primer is selected from the group consisting of silane compounds, titanium coupling agents, zirconium coupling agents, and moisture-curable urethane prepolymers.

138. The vehicular window assembly of claim 136 wherein the thickness of said layer of at least one of said adhesion promoter and said primer is from about 0.01 mils to about 3.5 mils.

139. The vehicular window assembly of claim 136 wherein the thickness of said layer of at least one of said adhesion promoter and said primer is from about 0.05 mils to about 2 mils.

140. The vehicular window assembly of claim 136 wherein the thickness of said layer of at least one of said adhesion promoter and said primer is from about 0.1 mils to about 1.0 mils.

141. The vehicular window assembly of claim 131 further comprising a glass frit layer disposed on said glass panel, said glass frit layer being disposed between said first surface of said glass panel and said layer of cured adhesive such that said layer of cured adhesive bonds said attachment member directly to said glass frit layer.

142. The vehicular window assembly of claim 131 wherein the thickness of said adhesive layer disposed between said attachment member and said glass panel is from about 0.01 mm to about 4.0 mm.

143. The vehicular window assembly of claim 142 wherein the thickness of said adhesive layer is from about 0.25 mm to about 2.0 mm.

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144. The vehicular window assembly of claim 143 wherein the thickness of said adhesive layer is from about 0.5 mm to about 1.0 mm.

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145. The vehicular window assembly of claim 131 wherein said attachment member is selected from the group consisting of mounting members, hinges, clevises, latches, lift brackets, division bars, positionable members, guide tracks, handles, guide pins, strut-mounting hardware, strikers, struts, power-mounting hardware, track members, rails, latch members, antennas, wiper mounts, sealing members, cosmetic articles, pin components, and hinge members.

146. The vehicular window assembly of claim 131 wherein said at least one plural amine compound has a molecular weight in the range of from about 115 to about 5000.

147. The vehicular window assembly of claim 146 wherein said at least one plural amine compound has a molecular weight in the range of from about 210 to about 290.

148. The vehicular window assembly of claim 131 wherein said at least one plural amine compound comprises one of a penta-amine and a hexa-amine.

149. The vehicular window assembly of claim 148 wherein said at least one plural amine compound contains one of 11 carbon atoms and 12 carbon atoms.

150. The vehicular window assembly of claim 131 wherein said at least one plural amine compound comprises an aminated reaction product of pentaerythritol, glucose or sucrose.

151. The vehicular window assembly of claim 131 wherein said at least one plural amine compound comprises one of an aminated sucrose and an aminated pentaerythritol.

152. A bonded vehicular assembly suitable for use in a vehicle, said assembly comprising:
a glass substrate having a first surface and an opposing second surface;

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an attachment member comprising a material selected from the group consisting of metal, plastic, and combinations thereof, said attachment member being selected from the group consisting of mounting members, hinges, clevises, latches, lift brackets, division bars, positionable members, guide tracks, handles, guide pins, strut-mounting hardware, strikers, struts, power-mounting hardware, track members, rails, latch members, antennas, wiper mounts, sealing members, cosmetic articles, pin components, and hinge members; and

a layer of cured, two-component urethane adhesive disposed between and bonding said first surface of said glass substrate to said attachment member, and

said adhesive comprising a mixture of a isocyanate component and a polyol component, said adhesive disposed between said first surface of said glass panel and said attachment member, said layer of adhesive cured to form a joint suitable for use on the vehicle;

said layer of cured adhesive bonding said attachment member to said first surface of said glass substrate prior to installation of said assembly in the vehicle and without exposure of said bonded attachment member on said second surface of said substrate; and

wherein said polyol component includes at least one plural amine compound.

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153. The bonded vehicular assembly of claim 152 wherein said adhesive further comprises at least one filler agent in at least one of said isocyanate component and said polyol component, wherein said filler agent is in an amount of from about 15% to about 50% of the total weight of said polyol and isocyanate components.

154. The bonded vehicular assembly of claim 153 wherein said filler agent is in an amount of from about 20% to about 30% of the total weight of said polyol and said isocyanate components.

155. The bonded vehicular assembly of claim 153 wherein said filler agent is selected from the group consisting of silicates, silica, calcium carbonate, talc, and combinations thereof.

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156. The bonded vehicular assembly of claim 152 further comprising a layer of at least one of an adhesion promoter and a primer disposed between said glass substrate and said layer of adhesive.

157. The bonded vehicular assembly of claim 156 wherein said at least one of said adhesion promoter and said primer is selected from the group consisting of silane compounds, titanium coupling agents, zirconium coupling agents, and moisture-curable urethane prepolymers.

158. The bonded vehicular assembly of claim 152 wherein said assembly is a movable vehicular window assembly.

159. The bonded vehicular assembly of claim 158 wherein said assembly further comprises a glass frit layer disposed on said glass substrate, said glass frit layer being disposed between said first surface of said glass substrate and said layer of urethane adhesive such that said layer of urethane adhesive bonds said attachment member directly to said glass frit layer.

160. The bonded vehicular assembly of claim 152 wherein said attachment member comprises a hinge having a first portion and a second portion that is movable with respect to said first portion, and wherein said first portion is bonded to said first surface of said glass substrate by an amount of said urethane adhesive disposed between and contacting said first portion and said glass substrate.

161. The bonded vehicular assembly of claim 160 wherein said second portion of said hinge is affixed to a vehicular mounting surface.

162. The bonded vehicular assembly of claim 152 wherein said at least one plural amine compound has a molecular weight in the range of from about 115 to about 5000.

163. The bonded vehicular assembly of claim 152 wherein said at least one plural amine compound has a molecular weight in the range of from about 210 to about 290.

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164. The bonded vehicular assembly of claim 152 wherein said at least one plural amine compound comprises one of a penta-amine and a hexa-amine.

165. The bonded vehicular assembly of claim 164 wherein said at least one plural amine compound contains one of 11 carbon atoms and 12 carbon atoms.

166. The bonded vehicular assembly of claim 152 wherein said at least one plural amine compound comprises an aminated reaction product of pentaerythritol, glucose or sucrose.

~~167. A movable vehicular window assembly comprising:~~

a glass panel having a first surface and an opposing second surface and comprising a layer of frit disposed on said first surface;

an attachment member comprising a material selected from the group consisting of metal, plastic, and combinations thereof, said attachment member being selected from the group consisting of mounting members, hinges, clevises, latches, lift brackets, division bars, positionable members, guide-tracks, handles, guide pins, strut-mounting hardware, strikers, struts, power-mounting hardware, track members, rails, latch members, antennas, wiper mounts, sealing members, cosmetic articles, pin components, hinge members, brake lights, gaskets and rearview mirrors; and

said glass panel and said attachment member joined by an adhesive layer;

said adhesive layer consisting essentially of a layer of a two-component urethane adhesive disposed between said layer of frit and said attachment member, wherein said adhesive comprises an isocyanate component and a polyol component, said layer of adhesive cured to form a joint suitable for use on a vehicle;

said layer of cured adhesive bonding said attachment member to said layer of frit on said first surface of said glass panel prior to installation of said assembly in the vehicle and without exposure of said attachment member on said second surface of said panel; and wherein said polyol component includes at least one plural amine compound.

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168. The movable vehicular window assembly of claim ~~167~~ wherein said movable vehicular window assembly is a window assembly selected from the group consisting of a hinged window assembly, a sunroof, a door lift window, a liftgate, and a sliding window assembly.

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169. The movable vehicular window assembly of claim ~~167~~ further comprising a layer of at least one of an adhesive promoter and a primer disposed between said layer of frit on said glass panel and said layer of adhesive.

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170. The movable vehicular window assembly of claim ~~169~~ wherein said at least one of said adhesion promoter and said primer is selected from the group consisting of silane compounds, titanium coupling agents, zirconium coupling agents, and moisture-curable urethane prepolymers.

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171. The movable vehicular window assembly of claim ~~169~~ wherein the thickness of said layer of at least one of said adhesion promoter and said primer is from about 0.01 mils to about 3.5 mils.

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172. The movable vehicular window assembly of claim ~~171~~ wherein the thickness of said layer of at least one of said adhesion promoter and said primer is from about 0.05 mils to about 2 mils.

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173. The movable vehicular window assembly of claim ~~172~~ wherein the thickness of said layer of at least one of said adhesion promoter and said primer is from about 0.1 mils to about 1.0 mils.

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174. The movable vehicular window assembly of claim ~~167~~ wherein the thickness of said adhesive layer disposed between said attachment member and said glass panel is from about 0.01 mm to about 4.0 mm.

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175. The movable vehicular window assembly of claim ~~174~~ wherein the thickness of said adhesive layer is from about 0.25 mm to about 2.0 mm.

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176. The movable vehicular window assembly of claim ~~175~~ wherein the thickness of said adhesive layer is from about 0.5 mm to about 1.0 mm.

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177. The movable vehicular window assembly of claim ~~167~~ wherein said at least one plural amine compound has a molecular weight in the range of from about 115 to about 5000.

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178. The movable vehicular window assembly of claim ~~167~~ wherein said at least one plural amine compound has a molecular weight in the range of from about 210 to about 290.

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179. The movable vehicular window assembly of claim ~~167~~ wherein said at least one plural amine compound comprises one of a penta-amine and a hexa-amine.

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180. The movable vehicular window assembly of claim ~~179~~ wherein said at least one plural amine compound contains one of 11 carbon atoms and 12 carbon atoms.

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181. The movable vehicular window assembly of claim ~~167~~ wherein said at least one plural amine compound comprises an aminated reaction product of pentaerythritol, glucose or sucrose.

REMARKS

Claims 1-130, as originally filed in the grandparent application, have been canceled herein and new claims 131-181 have been added. Examination on the basis of claims 131-181 is respectfully requested.

In addition, the specification has been amended to add a Cross Reference to the prior applications from which this application is continued, and to add the patent number of the application referenced on page 19.

New claims 131-181 are fully supported by the application as originally filed.

No new matter has been added.

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